PROJECT DESCRIPTION <u>CONTACTS</u> 7 8 9 10 11 12 13 14 15 16 17 I. GENERAL Ms. Anvesha Mookheriee $\begin{array}{c} \mathbb{R} \\ \mathbb{S} \\ \mathbb{G} \end{array}$ R Y THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC SIGNAL AT Assistant District Engineer - Traffic THE INTERSECTION OF MD 117 AND LONGDRAFT ROAD IN MONTGOMERY COUNTY. Phone: (301) 513-7358 MD 117 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION. Mr. Tom Fountain II. INTERSECTION OPERATION Assistant District Engineer – Maintenance Phone: (301) 513-7304 R | DW | DW | WK | WK | WK | • ----•| PHASE 2 AND 6 THE INTERSECTION OPERATES IN A NEMA FOUR-PHASE, SEMI-TRAFFIC-ACTUATED MODE. MD 117 THROUGH MOVEMENTS WILL OPERATE CONCURRENTLY AND LONGDRAFT ROAD R DW Mr. Victor Grafton PED CLEARANCE THROUGH MOVEMENTS WILL RUN CONCURRENTLY. THERE IS A PEDESTRIAN PHASE FOR Utility Engineer THE NORTH AND SOUTH LEG OF THE INTERSECTION AND THERE IS AN ALTERNATE DW 2 AND 6 CHANGE Phone: (301) 513-7350 PEDESTRIAN PHASE FOR THE EAST LEG OF THE INTERSECTION. DW PHASE 4 AND 8 Mrs. Corren Johnson MD 117 ASSUMED TO RUN IN EQUIPMENT LIST FOR CONTRACT NO. XY2385185 Chief, Traffic Operations Division AN EAST/WEST DIRECTION DW 4 AND 8 CHANGE Phone: (410) 787-7630 A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION R R WK PHASE 4 AND 8 ALT CATEGORY Mr. Edward Rodenhizer G | FL/DW|FL/DW| DW CODE QUANTITY UNIT DESCRIPTION PED CLEARANCE Manager, Signal Operations Phone: (410) 787-7650 SHEET ALUMINUM GROUND MOUNTED SIGN 900000 Y | DW | DW | DW | DW | DW RIRIRIRI Υİ 4 AND 8 ALT CHANGE EΑ R4-7 (24" x 30") SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN Mr. Sonny Bailey 900000 176 FLASHING Manager, Sign Operations M1-5(6) (30" x 48") POLE MOUNTED EΑ OPERATION Phone: (410) 787-7676 M1-5(6) (48"x 72") POLE MOUNTED EΑ D-3(1) (VAR. x 16") MAST ARM MOUNTED EΑ Mr. Mike Stocker EΑ R3-5(R) (30" x 36") MAST ARM MOUNTED OOTS, Signal Warehouse EΑ R10-3(1) (9"x 15") POLE MOUNTED Phone: (410) 787-7696 W9-2(4)L (30"x 42") MAST ARM MOUNTED EΑ CONTROLLER CABINET, SIZE "S" W/CTRL, VIDEO INT. 1-8 CAM 900000 Mr. Kamal Hamud Team Leader, Traffic Signals Montgomery County DOT Division of Traffic Engineering and Operations B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR Phone: (240) 777-8761 CATEGORY ITEM UNIT DESCRIPTION Mr. Bob Ricketts EΑ MAINTENANCE OF TRAFFIC (PER INTERSECTION) Supervisor, Montgomery Technical Center 100000 Montgomery County DOT CY CLASS 2 EXCAVATION 201032 TEST PIT EXCAVATION Division of Traffic Engineering and Operations 203030 40 CY 12 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES Phone: (240) 876-3681 420 585621 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES 585625 LF WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LEGENDS AND SYMBOLS SF 585627 50 REMOVAL OF EXISTING PAVEMENT MARKING LINES, ANY WIDTH 585700 575 LF REMOVAL OF EXISTING PAVEMENT LETTERS, SYMBOLS, ARROWS AND NUMBERS SF 585705 50 TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH 600000 LF 280 SF 5 INCH CONCRETE SIDEWALK 655105 1070 655120 SF DETECTABLE WARNING SURFACE FOR CURB RAMPS 704345 SY PLACING FURNISHED TOPSOIL 4 INCH DEPTH 25 TURFGRASS ESTABLISHMENT 705500 25 SY 2-WIRE APS CENTRAL CONTROL UNIT 800000 12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION EΑ 860284 ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH LED ROADWAY LUMINAIRE EΑ 800000 AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS 800000 EΑ 16 INCH LED COUNTDOWN PEDESTRIAN SIGNAL HEAD IP-BASED VIDEO DETECTION CAMERA & ANY LENGTH LEAD-IN CABLE 800000 5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD EΑ 800000 MD 117 ASSUMED TO RUN IN MAST ARM POLE & 38' MAST ARM ANY 'T' DIMENSION, FOUNDATION & GROUND ROD 800000 EΑ AN EAST/WEST DIRECTION MAST ARM POLE & 50' MAST ARM ANY 'T' DIMENSION, FOUNDATION & GROUND ROD 800000 EΑ EXISTING INTERCONNECT REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT (PER SIGNALIZED INTERSECTION LOCATION) TO PHEASANT RUN DRIVE 800000 POLE MOUNTED SPLICE CABINET EΑ 800000 EXISTING INTERCONNECT INSTALL CONTROLLER AND CABINET BASE MOUNT (ANY SIZE) INCLUDING F&I FOUNDATION & GROUND ROD EΑ 800000 TO WARING STATION ROAD 732478-3598 DISCONNECT, PULL-BACK & REROUTE CABLES 800000 LF 310 1 - CONDUCTOR ELECTRICAL CABLE, NO. 2/0 AWG, TYPE THHN 800000 150 LF 12-PAIR COMMUNICATION CABLE (SELF- SUPPORTING OR JELLY-FILLED/UNDERGROUND) 800000 150 - A,D,AA,b,x ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS & GROUND RODS 800000 800000 790 LF ELECTRICAL CABLE - 3 CONDUCTOR (NO. 12 AWG) (B,W,G) TYPE TC UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED OR SLOTTED 800000 300 LF UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED LF 800000 285 WIRING KEY INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE) 800000 THIRD PARTY CONCRETE TESTING (PER INTERSECTION) 800000 F,Z,DD,c,x A,B,C ι 7 CONDUCTOR ELECTRICAL CABLE ---- F,M,Q,T,W,Z,DD,c,x 801130 EΑ SQUARE PERFORATED TUBULAR STEEL SIGN POSTS D,E,F,G \(\) (NO. 14 AWG) 801135 EΑ SQUARE TUBULAR STEEL ANCHOR BASES H,J,K,L,M 1 5 CONDUCTOR ELECTRICAL CABLE NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 802501 680 N,P,Q,R,S / (NO. 14 AWG) EΑ 805050 WEATHER HEAD, 3 INCH ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN 810022 T,U,V,W,X,Y } 2 CONDUCTOR ELECTRICAL CABLE — A,D,P,V,AA,b,x 811001 ĒΑ FURNISH AND INSTALL ELECTRICAL HANDHOLE (NO. 14 AWG) LF 3 INCH DIAMETER POLYVINYL CHLORIDE CONDUIT, SCHEDULE 80, RISER 833060 Z,AA,BB,CC } 2 CONDUCTOR ELECTRICAL CABLE 861105 950 ELECTRICAL CABLE - 2 CONDUCTOR (NO.14 AWG) (NO. 12 AWG) TYPE T/C ELECTRICAL CABLE ~ 5 CONDUCTOR (NO. 14 AWG) LF 861107 1080 E,G,d,CC,x ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG) 1610 LF 861108 DD } 12 PAIR INTERCONNECT CABLE DEPARTMENT OF TRANSPORTATION a,b,c,d \ VIDEO CAMERA CABLE STATE HIGHWAY ADMINISTRATION C. EQUIPMENT TO BE REMOVED. -- B,C,a,BB,x STRANDED BARE COPPER GROUND WIRE OFFICE OF TRAFFIC & SAFETY x } (NO. 6 AWG) TRAFFIC ENGINEERING DESIGN DIVISION SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE MD 117 (CLOPPER ROAD) CONTROLLER CABINET. ALL OTHER EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE AND LONGDRAFT ROAD THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL. y (NO.8 AWG-THHN/THWN) PEPCO # 732478-4987 z } 3 WIRE, 1-CONDUCTOR ELECTRICAL CABLE (NO. 2 AWG-THHN/THWN) GENERAL INFORMATION PLAN SHEET V,Y,AA,b,CC,x A,B,C,D,E,F,G,H,J K,L,M,N,P,Q,R,S,x + } GROUND ROD SCALE NONE ADVERTISED DATE 08/2013 CONTRACT NO. XY2385185

LOTTED: Thursday, August 22, 2013 AT 03:08 PM FILE: P:\09-002 TEDD\Task 135 MD 117 Signals\Drawings\CADD\Working\6_MD117@Longdraft Rd\pSG-P003_M117@LD.dgn

BRUDIS & ASSOCIATES, INC

Consulting Engineers 9240 Rumsey Road; Suite C Columbia, Maryland 21045

Phone 410-884-3607

T,U,V,W,X,Y,Z,AA

BB,CC,DD,a,b,c,d,x

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